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SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

REPORT NO

INFORMATION REPORT

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25X1A

COUNTRY East Germany

DATE DISTR 23 March 1953

SUBJECT Construction of Decimeter Sets at the Sachsenwerk
Radeberg

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ACQUIRED

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NO. OF ENCLS
(LISTED BELOW)DATE OF
INFO. 12 to 30 November 1952SUPPLEMENT TO
REPORT NO.

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SOURCE

1. The decimeter sets used in the mobile WWH 11A-type decimeter stations, formerly called RDS-1 decimeter stations, can be operated as two-way transmitters on a frequency band of 0.3 to 75 kilocycles. The following frequencies of this frequency band are being used:

0.3 to 3 kilocycles for an official channel;

6 to 27 kilocycles and 36 to 57 kilocycles with the MES carrier frequency set for operating up to eight communications (eight two-way channels);
70 kilocycles for the level regulation (Pegelton) of the decimeter set.

Only the carrier frequency equipment for Channels A1, A2, B1, and B2 of the MES set are installed in the WWH 11A-type mobile decimeter station. Thus, only two communications can be transmitted by this mobile station. Together with the WWT 12A-type car, formerly the RDS-2 car, which is equipped with all parts of the MES carrier frequency set, eight two-way communications can be transmitted. The parts of the MES set installed in the WWH 11A-type car are then out of operation.

2. So far, all communications have been demodulated and newly modulated on the transmitter. An RVG 907-type set, which was still being developed in November, is to be used for converting the receiving frequency band directly to the transmitting frequency.
Sets for impulse modulation were not being developed.
3. A new parabolic reflector antenna, allegedly to be used for the mobile stations also, has been developed for the RVG 902 decimeter set. Tests made with this antenna in October and November 1952 show that its operating efficiency exceeds that of the antenna used thus far. Only one cable is required to feed the parabolic reflector antenna since a high-frequency filter for the separation of transmitting and receiving frequencies is installed directly in front of the decimeter set.

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